

US00PP30639P2

(12) United States Plant Patent Stanley

(10) Patent No.: US Pl

US PP30,639 P2

(45) **Date of Patent:** Jul. 2, 2019

(54) HEMP PLANT NAMED 'CW2A'

(50) Latin Name: *Cannabis sativa* L. Varietal Denomination: CW2A

(56) References Cited

U.S. PATENT DOCUMENTS

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PP27,475 P2 * 12/2016 Kubby A01H 5/00 Ptt./263.1

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OTHER PUBLICATIONS

(73) Assignee: **CWB Holdings, Inc.**, Denver, CO (US)

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

* cited by examiner

fused pet treats.

(21) Appl. No.: 15/932,859

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(22) Filed: **May 10, 2018**

(57) ABSTRACT

(51) **Int. Cl.**

The present invention provides a new and distinct hemp cultivar designated as 'CW2A'.

A01H 5/00 (2018.01) (52) U.S. Cl. USPC Plt/

13 Drawing Sheets

USPC Plt./258
(58) Field of Classification Search

1

USPC Plt./263.1, 258

Latin name of genus and species: Cannabis sativa L. Variety denomination: 'CW2A'.

2 other minor but valuable hemp compounds that work syn-

ergistically to heighten effects of products produced from 'CW2A'. This synergistic effect is sometimes referred to as

the "entourage effect". 'CW2A' extracts can be used to produce a variety of products, including liquid and capsule

forms for oral administration, topical products, cosmetic

products, infused beverages, sport products and hemp-in-

millennium BC, complete scientific corroboration for uses

Despite Cannabis being consumed since at least the third

BACKGROUND OF THE INVENTION

Cannabis is a genus of flowering plants that includes at least three species, Cannabis sativa, Cannabis indica, and Cannabis ruderalis as determined by plant phenotypes and secondary metabolite profiles. In practice however, Cannabis nomenclature is often used incorrectly or interchange-

Hemp, also known as industrial hemp, is a type of *Cannabis* plant grown specifically for the industrial uses of its derived products. Hemp by definition has no more than three-tenths of one percent (i.e., 0.3%) concentration of tetrahydrocannabinol (THC). THC causes psychoactive effects when consumed and is typically associated with marijuana (i.e., *Cannabis* with higher THC contents). Hemp extracts produced from industrial hemp, such as extracts produced from 'CW2A', have no such psychoactive effects due to their low THC content. Values of total CBD and total THC obtained from laboratory testing of dried mature female flowers may show variance that results from differing growing environments, sampling methodologies, and testing techniques.

of CBD are still in their infancy. Industry reports suggest CBD is used for a variety of health and wellness purposes, including as a sleep aid, coping with daily stress, fighting anxiety, relieving pain, assisting with cognitive function and boosting immune health. Significant research is currently being conducted at a variety of laboratories on the use of CBD as it relates to epilepsy, Post-Traumatic Stress Disorder (PTSD), cancer, autism, neuroprotection, anti-inflammatory effects, anti-tumor effects and anti-psychotic effects.

'CW2A' is a selection resulting from controlled-crosses using hemp germplasm from different regions of the United States. The primary goal of the breeding program was to

The present invention relates to a new and distinct hemp (*Cannabis sativa* L.) cultivar designated as 'CW2A'. Wholeplant hemp extracts from 'CW2A' contain an assortment of phytocannabinoids (e.g., CBD), terpenes, flavonoids and

'CW2A' is a selection resulting from controlled-crosses using hemp germplasm from different regions of the United States. The primary goal of the breeding program was to develop a new hemp variety with high cannabidiolic acid (CBDA) concentrations and low tetrahydrocannabinolic acid (THCA) concentrations in its mature female flowers. Of the females tracing back to the original cross, the healthiest and most vigorous individual that showed no monoecious tendencies without stress manipulation was chosen to be 'CW2A'.